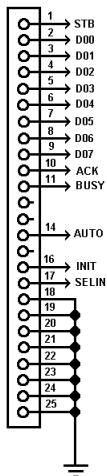




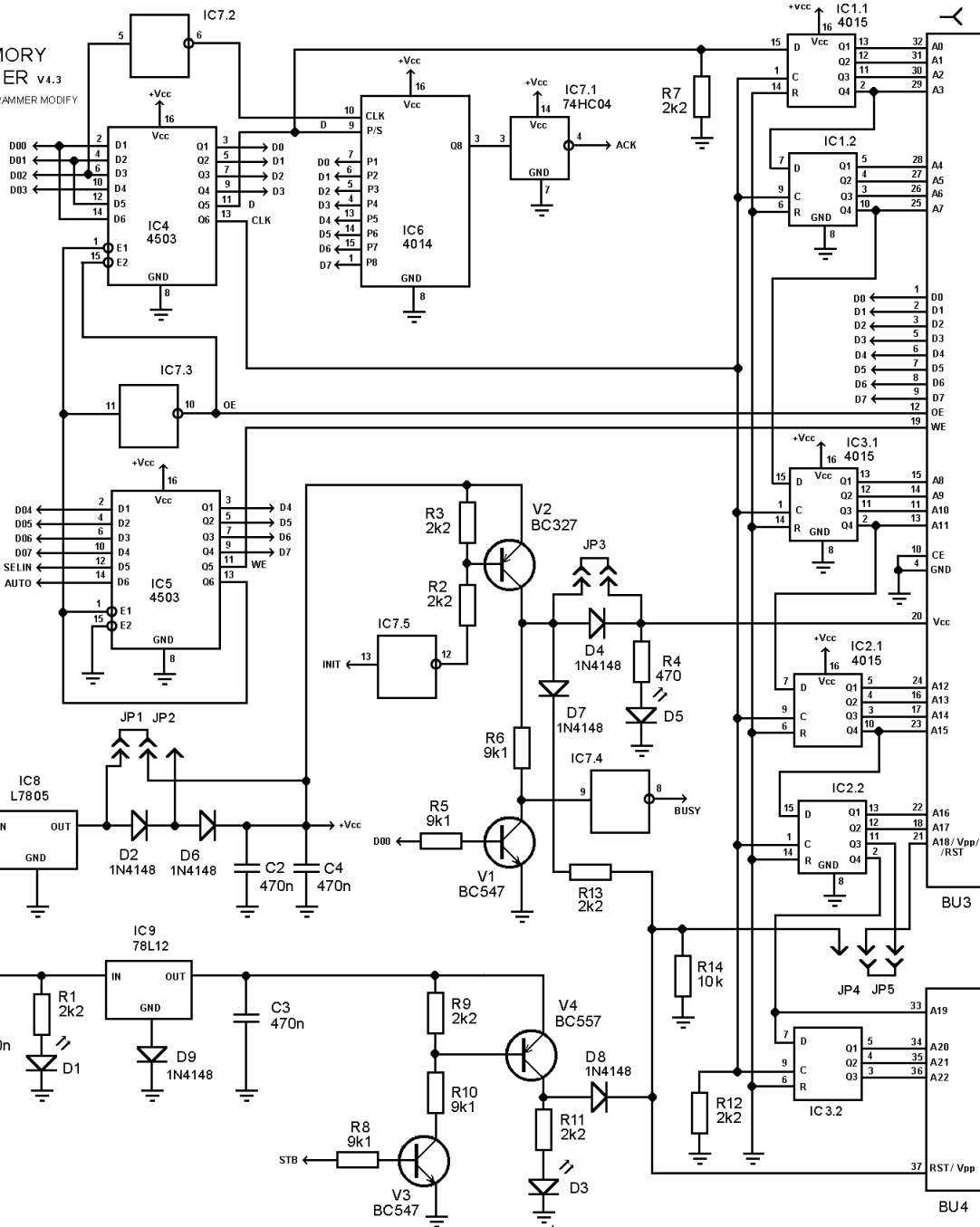
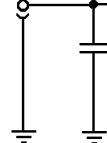
FLASH MEMORY PROGRAMMER v4.3

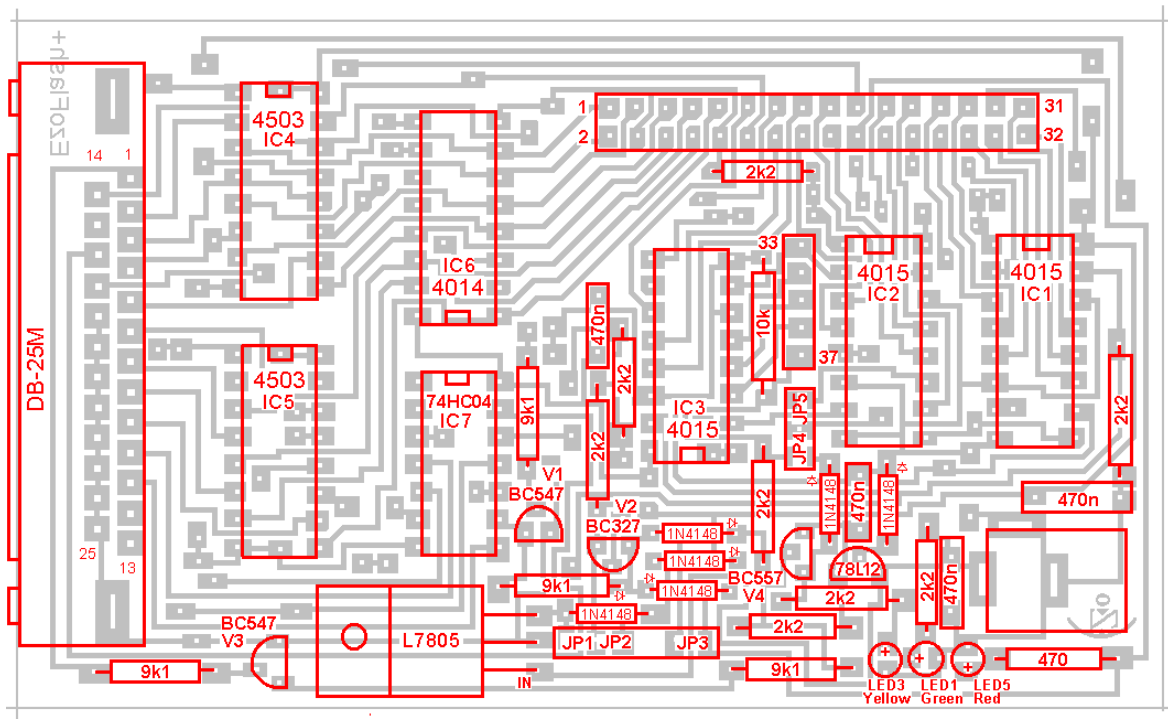
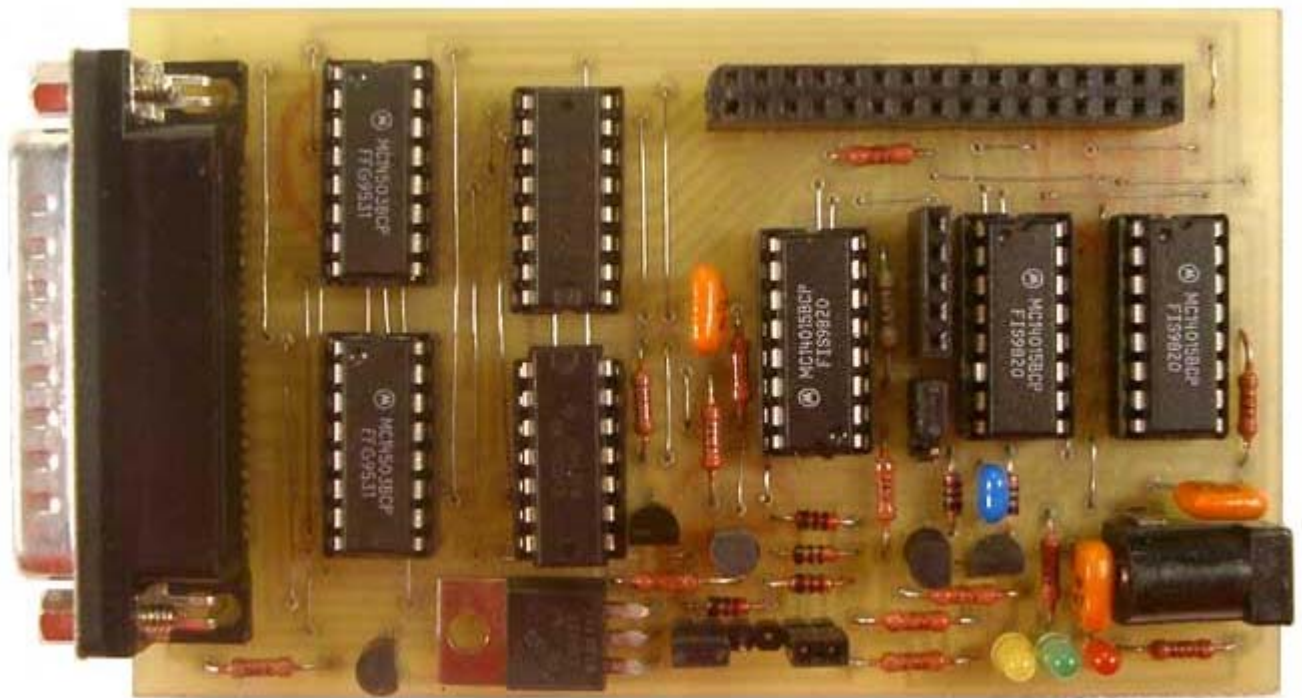
WILLEM EPROM PROGRAMMER MODIFY

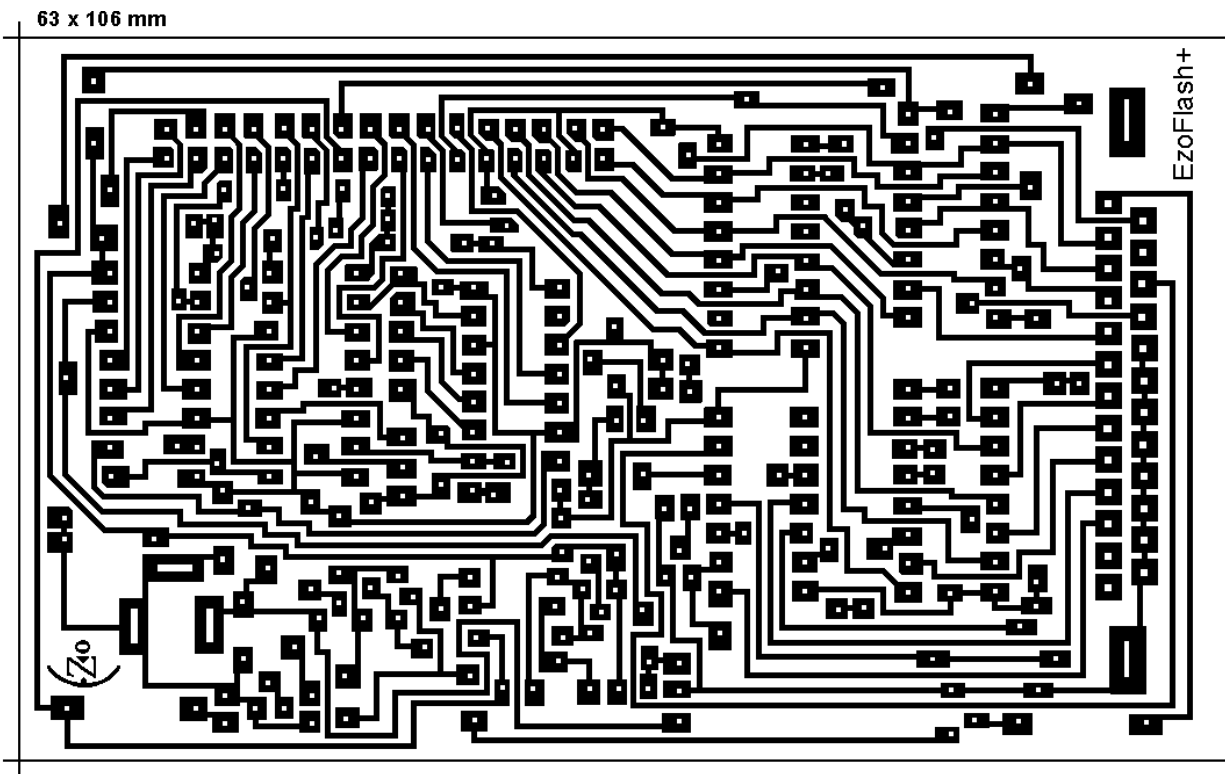
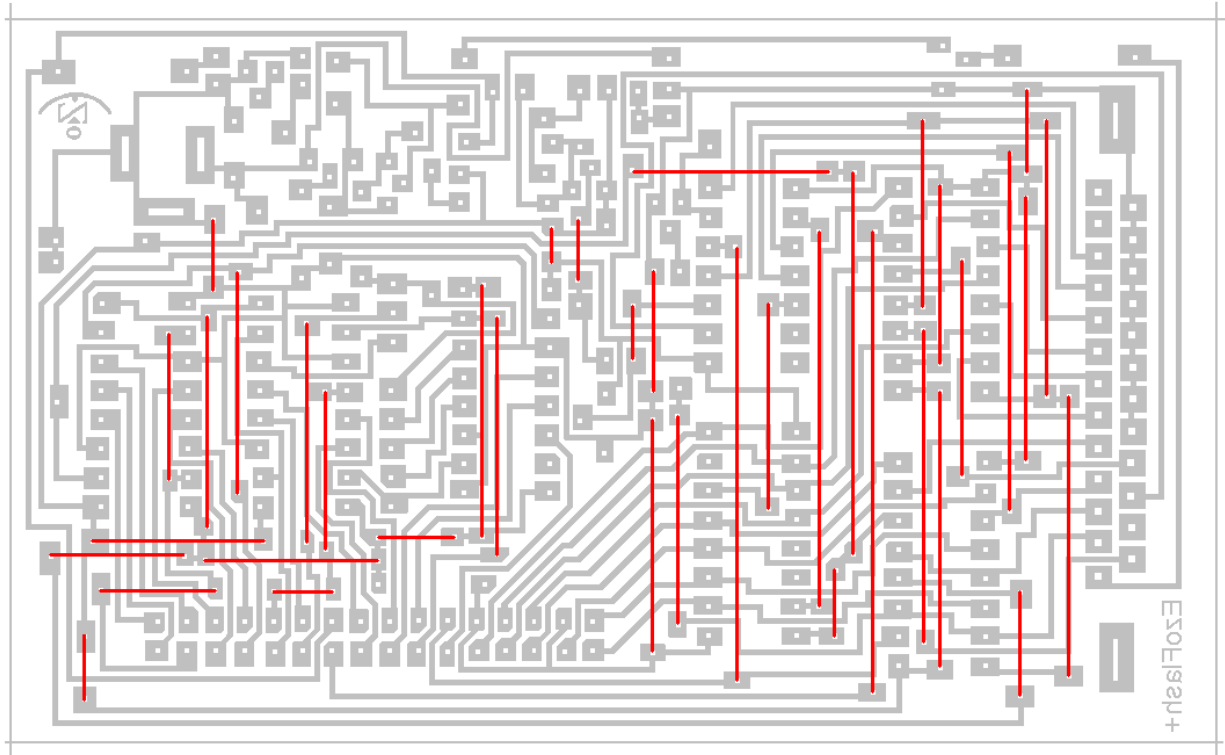
BU1
DB-25M



BU2
+15...18V







EZoFlash+. Parallel memory programmer.

Simplified and based on Willem EPROM programmer schematics and SW.

EZoFlash+ is oriented in flash memory programming and support:

- 8bit , 8/16bit and 16 bit flash memory in TSOP, PSOP, DIP and PLCC packages,
 - +3.3V and +5.0V Vcc devices;
 - get ID, read, verify, erase, blank check and program actions;
 - adress range to 64Mbit (..A22);
 - +12V driver for programming and temporary sector unprotection;
 - adapters with sockets for DIP-32 and PLCC-32 devices;
 - adapters with flash soldering or identical footprint sockets for TSOP-32,40,48,56 and PSOP-44 devices.
- Latest adapters allow FWH/LPC, AT89C51 family, EPROM and EEPROM programming.

Recommended SW versions

0.97ja, 10.06.2004, <http://www.willem.org/ZIP/epr097ja.zip>

0.97g, 26.01.2003, <http://www.willem.org/ZIP/epr097g.zip>

Important. Not running SW on powered programmer with adapter - connected PC can activate voltage drivers (+5 and +12, all LEDs flash) and damage target chip !

Keep sequence: Connect programmer to PC and power supply, run SW, (green LED only flashes), insert adapter.

Default jumpers settings are JP1 and JP3 (+5V-programmer /+5V-target chip), JP5 (A18).

Change jumpers from JP1, JP3 to JP2 (+4.3V/+3.6V) for 3.3V devices.

Some chips may require less voltage – no jumpers JP1..JP3 (+3.6V/+3.0V) or set JP3 (+3.6V/+3.6V)

Change jumper JP5 to JP4 for adapters used only on BU3 and where RST=log1 or Vpp=12V is required.

Adapters jumpers settings find in adapters doc's. Common jumpers: JP7 set Vpp=Vcc, JP8 set Vpp=+12V

EZoFlash+ (v4.3) programmer. Part list .

IC1..IC3 - 4015

IC4..IC5 - 4503

IC6 - 4014

IC7 - 74HC04

IC8 - L7805

IC9 - 78L12

V2 - BC327

V4 - BC557

V1, V3 - BC547

D1 - LED, green, 3mm diameter

D3 - LED, yellow, 3mm diameter

D5 - LED, red, 3mm diameter

D2,D4,D6..D9 - 1N1418 or KD522 (used in sample, picture)

C1..C4 - 470n

R1..R3, R7,R9,R12..R13 – 2k2

R4 - 470

R5..R6, R10 - 9k1 or 10k

R14 - 10k

BU1 - D-Sub 25 poles male connector with angled solder pins

BU2 - Chassis connector 2.5mm for PCB

BU3 - Strip connector socket, division 2.54 , 2x16

BU4 - Strip connector socket, division 2.54 , 1x5

JP1..JP3 – Straight pin header, division 2.54, 1x6 (one pin is removed) / Jumper , division 2.54 (2pcs)

JP4..JP5 – Straight pin header, division 2.54, 1x3 / Jumper, division 2.54 (1pc)